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98519

Page 1

March-12-13 1:58:20 PM Item ID: D4086-200 Accept Setup Start *N900040100* **Revision ID:** Stop Item Name: Placard, Max Load *10* Start Date: 3/08/13 **Start Qty: 10.00 Cust Item ID:** Required Date: 3/22/13 Req'd Oty: 10.00 *10* **Customer:** Reference: Run Date: 13-02-12 Tooling: Approvals: Date: Stop Date: SPC (Y/N): Date: Sequence ID/ Operation **Tool ID** Tool # Plan Set Up/ Reject Reject Accept Insp. **Work Center ID** Description Qty Qty Number Stamp **Run Hours** Code Draw Nbr **Revision Nbr** D4086 В 100 0.00 118-03-15 *100* Purchasing 0.00 Memo Purchasing Manufacture as per Dwg D4086 Possible Supplier:Studio Lettrage Material release note required Receive & Inspect for Damage & Mat'l Certs 110 0.00 *110* 0.00 Packaging Memo Packaging 120 QC6- Inspect dimensions to drawing *120* 0.00 13.3 19 QC Memo Quality Control

NCR: Y	es	/ No				WORK ORDER NON-O	CON	FORN	MANCE / UPI	DATE	QA Closed:	Date	:
Vork Orde	r:					DISPOSITION				AGAINST DI	EPARTMENT	/PROCESS	
Part N	o					Rework Scrap Use-as-is Work Order Update		Skid-tube Crosstube Machining Small Fab Thermoforming Finishing		Small Fab	Water Jet Prod. Eng. Coor. Rec/Store/Packaging Supplier		Engineering Quality Other
NCR N	···-					Work Order Opdate	<u> </u>		Large Fab			Juppher	
Root Cause		Date	Step	Qty		ption of work order update or Non-conformance	1	itial ef Eng		tion ription	Sign & Date	Verification	QC Inspector
oc/Data	1	Dute	Step	Qty	•	or Horr comormance	0	er Eng					
perator laterial													
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napproved							<u> </u>						
Landir			į			General	AULT	CATE	GORY				
		Bending Centre No Cracks Crushed/G Cuffs Heat Trea Inspection Ripples in	Crimped it n Strip in i Bend	Tube		Bend BOM/Route Broken/Damaged Burrs Contamination Countersink Cut Too Short Drill Holes		nstruct Mainte Mislabe Misreac Offset	on Incomplete ions Incomplete/ nance led	Unclear	Ovalized Over/Under Part Incorred Part Lost/M Part Moved Positioned V Power Loss/	ct ssing Vrong	Pressure/Forced Temperature/Cure Weld Wrong Stock Pulled Other
		Torque W			n ├	Drawing Finish	\vdash		Calibration Sequence				
		Turning S Wave/Tw	-		-	Folio	\vdash		Dimensions				

DQA: Date:

Work Order ID 98519 March-12-13 1:58:20 PM				*985	519*							Page 2
Item ID: Revision ID: Item Name:	D4086-200 Placard, Max	Load		Accept	*N900	04 0	100	* 8	Setup	Start Stop	*NS	S1* S2*
Start Date: Required Date Reference:	3/08/13	Start Qty: 10.00 Req'd Qty: 10.00	*10* *10*		Cust Item II Customer:	D:						
Approvals:	Process Pla	an:	Date:	Tooling: SPC (Y/N):		ite:		F	Run	Start Stop	*NF *NF	₹1* ₹2*
Sequence ID/ Work Center I 130 *130* Packaging Packaging	D	Operation Description Identify as per dwg & Sto	ock Location: SH 093	Set Up/ Run Hours 0.00	Tool ID	Tool#	Plan Code	Accept Qty	Re Qt	-	Reject Number	Insp. Stamp
140 *1 4\\ *		QC21- Final Inspection -	Work Order Release	0.00					13	13/	209	

Memo

Quality Control

NCR: Y	'es	/ No					WORK ORDER NON-O	100	NFORM	MANCE / UPE	DATE			_		
												(QA Closed:	Dat	te:	
Vork Orde	er:						DISPOSITION				_	DEP	PARTMENT			
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Root					Desc	rip	tion of work order update	ı	nitial	Act	ion		Sign &			
Cause		Date	Step	Qty		o	r Non-conformance	Ch	ief Eng	Descr	iption		Date	Verification	า	QC Inspector
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		Cuffs	cimpeu		ł		Contamination	-	Mainte	•	, icieai	-	Part Moved	issiiig [Wrong Stock runed
		Heat Trea	t				Countersink		Mislabe		}		Positioned V	Vrong		
	\vdash	Inspection		Tube	Ì		Cut Too Short	\vdash	Misread		f	-	Power Loss/	· ·		Other
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		Turning S			ļ		C Finish		-	Seguence		-			_	

Outside Dimensions

DQA:

Date:

Wave/Twist in Tube

Folio

Picklist Print

March-12-13 1:58:19 PM

Page 1

Work Order ID:

98519

Parent Item:

D4086-200

Parent Item Name:

Placard, Max Load

Start Date: 3/08/13

Required Date: 3/22/13

Start Qty: 10.00

Required Qty: 10.00

Comments:

IPP REV:A NEW ISSUE 10-08-09 JLM VERIFIED BY:LL

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status	
D4086-200P	-	Purchased	No		·	100	Each	0.0000	1	10		-		
Placard, Max Load														

/43/3/18 (10)

											DQA:	Date:	
NCR: Y	es	/ No				WORK ORDER NON-O	COI	NFOR	MANCE / UPI	DATE			•
								_			QA Closed:	Date:	
Work Orde	. ش					DISPOSITION				AGAINST DE	PARTMENT	/PROCESS	
Work Orde	·· -					Rework	1		Skid-tube	Crosstube]	Water Jet	Engineering
Part N	lo.				•	Scrap	1		Machining	Small Fab	Pro	d. Eng. Coor.	Quality
NCR N	lo					Use-as-is Work Order Update		Thern	noforming Large Fab	Finishing Composite	Rec/Sto	re/Packaging Supplier	Other
Root	T				Descri	ption of work order update		Initial	Act	tion	Sign &		
Cause		Date	Step	Qty	(or Non-conformance	Ch	nief Eng	Desc	ription	Date	Verification	QC Inspector
Doc/Data													
Equip/Tooling	╝												
Operator							İ						
Material	_												
Setup	\Box										ļ		
Other													
Process				1									
Supplier													
Training	_												
Unapproved													
		·				F	AUI	LT CATE	GORY				
Landin	ng G	iear				General	_	-		-	-		•
	\square	Bending			L	Bend	L	Grain		<u> </u>	Ovalized		Pressure/Forced
		Centre No	ot Conce	ntric to	o/s	BOM/Route		Hardwa	ire		Over/Under	tolerance	Temperature/Cure

Inspection Incomplete

Maintenance

Out of Calibration

Out of Sequence

Outside Dimensions

Mislabeled

Misread

Offset

Instructions Incomplete/Unclear

Part Incorrect

Part Moved

Part Lost/Missing

Positioned Wrong

Power Loss/Surge

Weld

Other

Wrong Stock Pulled

Broken/Damaged

Contamination

Countersink

Cut Too Short

Drill Holes

Drawing

Finish

Folio

Burrs

Turning Sequence

Wave/Twist in Tube

Ripples in Bend

Cracks

Cuffs

Heat Treat

Crushed/Crimped

Inspection Strip in Tube

Torque Waves in Extrusion

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

MAXIMUM DISTRIBUTED LOAD XXX LB / YYY KG TOTAL 1.80 32 lbs/ft2 (156 Kg/m2) REFER TO FMS-D350-607 OR FMS-D355-607 FOR OTHER LOADING LIMITATIONS P/N D4086-XXX 0.09 R0.20 TYP

98519 pl 13-02-p

B D4086-XXX PLACARD, MAX LOAD (XXX = ALLOWABLE WEIGHT)

(PART NUMBER	LOAD
í	D4086-200	200 lb / 91 kg
<u>a</u>	D4086-210	210 lb / 95 kg
ب د	D4086-215	215 lb / 98 kg
	D4086-220	220 lb / 100 kg
Ī	D4086-232	232 lb / 105 kg
Ī	D4086-243	243 lb / 110 kg

				v 140-5₹6	: i
В	ADDED REASO	-200/-215 PL/ N: ADDITION	CARDS. OF D350-607-54X BASKET SERIES.	мв	10.08.04
Α	NEW IS	SUE		JPH	10.03.08
REV.	<u> </u>		DESCRIPTION	BY	DATE
DESIG	N	1	DART AEROSP	ACE L	TD
DRAW	N	۔ لمر	HAWKESBURY, ONTAI		
CHECK	ŒD_	Sa	DRAWING NO.		REV. B
MFG. A	PPR.		D4086		SHEET 1 OF 1
APPRO	VED	M	TITLE		SCALE
DE APP	PR.		TPLACARD, MAX LOA	۸D	NTS
DATE	10.0	18 04	COPYRIGHT © 2010 BY DART		

NOTES:

1) MATERIAL: RED LETTERS WITH WHITE BACKGROUND AND ADHESIVE BACK.
MANUFACTURED FROM 3M, 7 MIL MASKING FILM #8522CP OR
AVERY IPM #2031

AVERY IPM #2031
2) FINISH: N/A
3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
4) UNITS: INCHES UNLESS OTHERWISE NOTED
5) BREAK SHARP EDGES: N/A
6) IDENTIFICATION: N/A
7) WEIGHT: N/A
8) PART NUMBER = D4086-MAX DISTRIBUTED WEIGHT IN POUNDS (lbs) OF THE BASKET.
EXAMPLE: D4086-210 IS A BASKET WITH MAX DISTRIBUTED WEIGHT OF 210 POUNDS (lbs).

С



Dart Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, ON K6A 1K7

Tel: 613 632 9577 Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO19348

Purchase Order Date 3/15/13 PO Print Date 3/18/13

Page Number 1 of 2

Order From:

VC-STU001

STUDIO DE LETTRAGE 2001 210 MAIN WEST HAWKESBURY, ON K6A 2H6

CA

Contact Name Vendor Phone

613 632 5449

Vendor Fax

613 632 9491

Vendor Account Nbr

Buyer

Requisition Nbr

Tax Resale Nbr

Terms Currency Net 30 CAD

FOB

Destination-Collect

Brigitte Golden

10127-2607

Ship To:

DART AEROSPACE LTD

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

CANADA

REVISED -

Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ R Taxable Unit of M	Req Qty/ Measure	Ship Method	Unit Price	Extended Price
D3	096-1P	Placard	3/18/13 Yes	6.00 Each	Yours ppd	\$13.3333	\$80.00
/		Special lust:	AS PER DWG: D3096 REV:A B98575				
D4	086-200P	Placard, Max Load	3/18/13 Yes	10.00 Each	Yours ppd	\$8.0000	\$80.00
`		Special Inst:	AS PER DWG: D4086 REV: B B98519				
D22	258-20(P	Weight Placard 2001b	3/18/13 Yes	15.00 Each	Yours ppd	\$11.2433	\$168.65
		Special (ast:	AS PER DWG: D2258-200 REV:F B98342	0			

No substitution or deviation without consent.

Certificate of Conformity or Material Certification required / YES) NO

Change Nbr:

Change Date: 3/18/13

Studio de Lettrage 210 Main Street W Hawkesbury, Ontario K6A 2H6

INVOICE

Invoice No.:

19727

Date:

03/18/2013

Ship Date:

Page:

Re: Order No.

WO9528

Sold to:

Dart Aerospace Ltd

1270 Aberdeen Hawkesbury, Ontario K6A 1K7

Ship to:

Dart Aerospace Ltd

Hawkesbury, Ontario

Business No.:	82500 7651 RT					
Item No.	Unit	Quantity	Description	Tax	Unit Price	Amount
Country of the Countr	en versa salatida keelu sela etti viilikkoi neeltä deka takseestettee.	1	lot of 6 D3096-P-stickers set up charge lot of 10 D4086-200P stickers set up charge stickers D2258-200P se tup charge lot of 12 D3671-1P stickers set up charge H - HST 13% HST	######################################	30.00 50.00 30.00 50.00 7.91 50.00 30.00 50.00	30.00 50.00 30.00 50.00 118.65 50.00 30.00 50.00
			no i			
		:				
Shipped By:	HST: #825007651F Tracking N	L			a Total Amount	461.77

****Certificate of Conformity**** Customer: Steedie Lettrage 7001								
19348	9528	D4086-Zoof Quantity:						
Description:		10-						
Stecker 10								
Certification:								
MAL hamabu aartifu tha	4 .							
We hereby certify tha	ι.							
1. The above the list	ed items were manufac	tured, repaired and/or ir	spected in					
accordance with a	pplicable drawings and	or specifications;						
2. All work was accomplished in accordance with the Dart Aerospace								
All work was accomplished in accordance with the Dait Aerospace Purchase Order;								
Results of all inspections, chemical or physical tests, as well as other evidence,								
3. Results of all inspends	ections, chemical or phy	rials, parts and/or asser	mbly					
components are of	n file and available for in	rspection at any time.	•					
00 , p 000		•						
Authority:	<u> </u>		·					
Authority.								
		•	•					
3 M								
APPROVAL: GO	ACE BATISTA	DATE:						
Q Z		18/3/1	3					
Signature:	$\supset \mathcal{U}_{\mathcal{A}}$	10/011						
Signature.		7						
JD	<i>}</i>	· .						
Title:		1						



Product & Instruction Bulletin 8522

Release I, Effective September 2008 See Bulletin Change Summary and end of Bulletin This Bulletin now includes Instruction Bulletin 4.23

Scotchcal[™] Changeable Opaque Imaging Media

8522

Product Description

Recommended Types of Graphics and End Uses

For Thermal Inkjet Printing

This durable, 7 mil, opaque, changeable film is optimized for use with selected thermal inkjet printers and inks. Ink dries quickly on the film. When overlaminated, it is warranted for medium term, outdoor weatherable graphics, and long term indoor graphics.

When constructed and used as described in this Bulletin, these types of graphics and end uses may be warranted by the 3M™ MCS™ Warranty. Please read the entire Bulletin for details.

- First surface images (the image is on top of the film) for opaque posters and signs, including:
 - Graphics for vans, personal vehicles, trucks and buses
 - Novelty posters
 - Retail and point-of-purchase displays
 - Information graphics such as maps and directories
 - Entertainment promotions in museums, zoos, parks, theatres, sports venues
 - Education and presentation graphics
 - Legal and courtroom exhibits
- For flat or simple curved surfaces, with or without rivets, used in vertical (± 10°) applications

Limitations of End Uses

3M specifically does not recommend or warrant the following uses, but please contact us to discuss your needs or recommend other products.

Unsuitable End Uses for This Product

- Not for electronically cut individual letters and numbers
- Fleet applications in areas that use salt for winter road maintenance
- Application to non-warranted substrates, including wallboard
- Applications subjected to gasoline vapors or spills
- Application to corrugated or highly irregular surfaces or sharply raised areas
- Graphics applied to stainless steel, including stainless steel vehicles
- On flat surfaces with rivets, tenting of 4 to 10 mm around rivets may be expected; rivets may be cut around to eliminate tenting.
- Graphics made for automotive Original Equipment Manufacturers (OEM); contact 3M Automotive Division at 1-800-328-1684 for alternatives.

About Water-Based Inkjet Technology

Standard inkjet technology is water based. Water-based chemistry is susceptible to the extremes of heat and humidity. This is a factor in most product constructions on the market. Read the Fabrication, Shelf Life and Storage sections in this Bulletin. Staying in the middle of these ranges always provides optimum performance.

Compatible Products

3M Graphic Materials

For complete details about graphic construction options, recommended uses and durability, refer to the Product Bulletin for the base film or substrate (media) you are using. See **3M Related Literature** at the end of this Bulletin.

This Bulletin provides details about the base film and construction options and warranty. Additional specific information about compatible products can be found in the Product and Instruction Bulletins listed in **3M Related Literature** at the end of this bulletin.

3M Graphic Materials

For complete details about graphic construction options, recommended uses and durability, refer to the Product Bulletin for the base film or substrate (media) you are using. See **3M Related Literature** at the end of this Bulletin.

Film

3M™ Scotchcal™ Opaque Imaging Media 8522

Overlaminate

3M ™ Scotchcal ™ Luster Overlaminate 8519

3M™ Scotchcal™ Matte Overlaminate 8520

Printers and Inks

HP Designjet Printers	HP Inks		
 2500CP and 2000CP 2800CP and 3800CP 3500CP and 3000CP HP Designjet 5000 and 5500 	 Designjet CP Ink System UV (pigment-based) Designjet CP Inkjet System (imaging ink) 		
• Z6100	HP 91 Vivera Ink System		

Epson Printers	Epson inks
Stylus Pro 9500	Archival Inks
 Stylus Pro 10000 printer 	
 Stylus Pro 10600 printer 	

Characteristics

These are typical values for unprocessed product; processing may change the values. Contact your 3M representative for a custom specification.

Characteristic	Description		
Media	7 mil, white, opaque graphic film		
Liner	Low-slippage, lay flat paper		
Adhesive	Changeable, pressure sensitive		
Thickness	Media with adhesive: 7.5 to 8 mil (nominal)		
Warranted application substrates	See next page.		
Application surfaces	Flat or simple curved surfaces, with or without rivets, used in vertical (± 10°) applications (no corrugations)		
Application temperature range	28° to 110°F (-2° to 43°C) (air and surface)		
Removable	For up to one year; see Warranty Information		

Characteristic	Description
Warranted application substrates	Some substrates may "out-gas", resulting in tiny bubbles throughout the surface of the graphic. For maximum performance, be sure the substrate you select is properly cleaned and prepared as recommended by the manufacturer. See Instruction Bulletin 5.1 for additional information.
	Alodine (anodized aluminum)
	Automotive panels (automotive painted steel)
	Fruehauf (painted aluminum)
	FRP (fiberglass reinforced plywood)
	Glass
	Imron ® (polyurethane-painted metal panel)
	Acrylic
	Sintra ™ board
	Note: Use on any other substrate is strictly on a graphics manufacturer and customer test and approve basis. Test for both adhesion and removal characteristics. The plasticizer in some banner materials may migrate. This may cause the edge of the graphic to peel or lift off of the banner. For optimum performance, follow the guidelines in the section, Creating A Laminated Overlap, on page 4.

Warranty Information

The warranty given in the Product Bulletin that is current at the time you purchased the film is the one that 3M will honor. The warranties in the following table(s), given in years, are for finished graphics exposed in a vertical exposure in the United States except the Desert Southwest. See the warranty sections following this table for additional information.

3M[™] MCS[™] Warranty Durability for Finished Graphics

Construction (film and	HP Printers & Inks		Epson Printers & Inks		Removal
overlaminate on warranted substrate	Outdoor	Indoor	Outdoor	Indoor	
8522/8519	3 years	5 years	2 years	5 years	1 year without
8522/8520					chemical strippers or tools

Warranty and Limited Remedy

The following is made in lieu of all other express or implied warranties, including any implied warranty of **merchantability** or fitness for a particular purpose or implied warranty arising out of a course of dealing, custom or usage of trade: all 3M products are warranted to be free of defects in materials and manufacture at the time of shipment and to meet the specifications stated in this Product Bulletin. 3M will replace or refund the price of any 3M materials that do not meet this warranty within the specified time periods. These remedies are exclusive. In no case shall 3M be liable for any direct, indirect, or consequential damages, including any labor or non-3M materials charges.

See the Graphics Market Center Warranty Brochure, which gives the terms, additional limitations of the warranty, if any, and limitations of liability.